

The ATLAS Tier-0: Overview and Operational Experience

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Within the ATLAS hierarchical, multi-tier computing infrastructure, the Tier-0 centre at CERN is mainly responsible for prompt processing of the raw data coming from the online DAQ system, to archive the raw and derived data on tape, to register the data with the relevant catalogues and to distribute them to the associated Tier-1 centres.

The Tier-0 is already fully functional. It has been successfully participating in all cosmics and commissioning data taking since May 2007, and was ramped up to its foreseen full size, performance and throughput for the cosmics (and short single-beam) run periods between July and October 2008. Data and work flows for collision data taking were exercised in several "Full Dress Rehearsals" (FDRs) in the course of 2008. The transition from an expert to a shifter-based system was successfully established in July 2008.

This presentation will give an overview of the Tier-0 system, its data and work flows, and operations model. It will review the operational experience gained in cosmics, commissioning, and FDR exercises during the past year. And it will give an outlook on planned developments and the evolution of the system towards first collision data taking expected in Spring 2009.

Presentation type (oral | poster)

oral

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